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TITLE : PRODUCTION OF TERBIUM ALUMINUM GARNET SINGLE CRYSTAL

ABSTRACT : PURPOSE: To produce an oxide single crystal excellent in optical characteristics at a relatively high rate of growth.

CONSTITUTION: In a method for producing a terbium-aluminum garnet single crystal represented by a compositional formula $Tb_3Al_5O_{12}$, having a garnet structure and contg. a group IIIa element substd. for part of terbium lattice points, a single crystal is grown by a melting-solidifying method while controlling the partial pressure of oxygen in a growth atmosphere within the range of 10^{-2} - 10^{-7} atm and the objective terbium aluminum garnet single crystal is produced.

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